Schedule B23 Type Certificates

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

E00001SC REVISION: 2 Superior Air Parts Engines O-360-A1A1, A1A2, A2A1, A2A2, A3A1, A3A2, BIA1, BIA2, B2A1, B2A2, B3A1, B3A2, B4A1, B4A2, B5A1, B5A2, B6A1, B6A2, C1A1, C1A2, C2A1, C2A2, C2A1, C3A2, D1A1, D1A2, D2A1, D2A2, D3A1, D3A2, D4A1, D4A2, D5A1, D5A2, D6A1, D6A2, E1A1, E1A2, E2A1, E2A2, E3A1, E3A2 IO-360-A1A1, A1A2, A2A1, A2A2, A3A1, A3A2, BIA1, BIA2, B2A1, B2A2, B3A1, B3A2, B4A1, B4A2, B5A1, B5A2, B6A1, B6A2, C1A1, C1A2, C2A1, C2A2, C2A1, C3A2, D1A1, D1A2, D2A1, D2A2, D3A1, D3A2, D4A1, D4A2, D5A1, D5A2, D6A1, D6A2, E1A1, E1A2, E2A1, E2A2, E3A1, E3A2 October 19, 2007

TYPE CERTIFICATE DATA SHEET NO. E00001SC

Engines of models described herein conforming with this data sheet (which is part of Type Certificate No. E00001SC) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder:

Superior Air Parts, Inc. 621 South Royal Lane, Suite 100 Coppell, TX 75019

Model	O-360- A1A2, A2A2,	O-360-B1A2, B2A2,	O-360-D1A2,	O-360-E1A2,
	A3A2	B3A2, B4A2, B5A2,	D2A2, D3A2,	E2A2, E3A2
		B6A2, C1A2, C2A2,	D4A2, D5A2,	
		C3A2	D6A2	
Туре	4HOA			
Rating				
U.S. Standard Atmosphere and ICAO at				
Sea Level Pressure Altitude				
Take-Off/Max. Continuous HP	180	— —		
Take-Off/Max. Continuous RPM	2700			
Take-Off/Max. Cont. Manifold Press in	29.5			
Нg				
Fuel				
Aviation Gasoline	ASTM D910, Min Grade			
	91/98 (lead optional)			
Motor Gasoline (R+M/2) (See Note 7)	ASTM D4814, Min			
	Octane 91 (no alcohol)			
Lubricating Oil	See Installation &			
	Operation Manual,			
	SVIOM01			
Bore and Stroke – in	5.125 x 4.375			
Displacement – cubic in	361			
Compression Ratio	8.5:1			

Page No.	1	2	3	4	5
Rev. No.	2	2	2	2	2

Case 08-36705-bjh11 Doc 4-6 Filed 12/31/08 Entered 12/31/08 19:42:55 Desc Schedule B23 - Type Certificates Page 3 of 33

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Model	O-360-A1A2, A2A2,	O-360-B1A2, B2A2,	O-360-D1A2.	O-360-E1A2.
	A3A2	B3A2, B4A2, B5A2,	D2A2, D3A2,	E2A2, E3A2
		B6A2, C1A2, C2A2,	D4A2, D5A2.	
		C3A2	D6A2	
Weight (Basic Engine, Dry) – lbs See Installation & Operation Manual, SVIOM01, for detailed model weights	288	291	294	295
C.G. Location (Basic Engine)	See Installation &			
C.G. Location (Basic Engine)	Operation Manual,			
	SVIOM01			
Principal Dimensions – in (Height x Width x Length)	24.6 x 33.4 x 32.8			
Propeller Shaft	Direct, SAE Modified			
	Type 2 per AS127			
Fuel System	Precision Airmotive			
	Carburetor MA-4-5 type			
Ignition – Two Magnetos	Unison Impulse Magnetos 4371 with the appropriate ignition harness			
Timing - °BTC	R: 25°, L: 25°			
Spark Plugs	Champion REM40E, Unison UREM40E			
Oil Sump Capacity	8 quarts; 6 qts. usable at 20° noseup, and 6.5 qts. usable at 10° nosedown attitudes			

⁻⁻ indicates "same as preceding model"

Model	O-360-A1A1, A2A1,	O-360-B1A1, B2A1,	O-360-D1A1,	O-360-E1A1,
	A3A1	B3A1, B4A1, B5A1,	D2A1, D3A1,	E2A1, E3A1
		B6A1, C1A1, C2A1,	D4A1, D5A1,	,
		C3A1	D6A1	
Туре	4HOA			
Rating				
U.S. Standard Atmosphere and ICAO at				
Sea Level Pressure Altitude				
Take-Off/Max. Continuous HP	168		— –	
Take-Off/Max. Continuous RPM	2700			
Take-Off/Max. Cont. Manifold Press in	29.5			— —
Hg				
Fuel				
Aviation Gasoline	ASTM D910, Min Grade			
	91/98 (lead optional)			
Motor Gasoline (R+M/2) (See Note 7)	ASTM D4814, Min			
	Octane 91 (no alcohol)			
Lubricating Oil	See Installation &			
	Operation Manual,			
	SVIOM01			
Bore and Stroke – in	5.125 x 4.375			
Displacement – cubic in	361			
Compression Ratio	7.2:1	<u> </u>		
Weight (Basic Engine, Dry) - lbs	288	291	294	295
See Installation & Operation Manual,				
SVIOM01, for detailed model weights				
C.G. Location (Basic Engine)	See Installation &			
	Operation Manual,			
	SVIOM01			
Principal Dimensions – in	24.6 x 33.4 x 32.8			
(Height x Width x Length)				

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Model	O-360-A1A1, A2A1,	O-360 -B1A1, B2A1,	O-360-D1A1,	O-360-E1A1,
	A3A1	B3A1, B4A1, B5A1,	D2A1, D3A1,	E2A1, E3A1
		B6A1, C1A1, C2A1,	D4A1, D5A1,	
		C3A1	D6A1	
Propeller Shaft	Direct, SAE Modified			
_	Type 2 per AS127			
Fuel System	Precision Airmotive			
	Carburetor MA-4-5 type			
Ignition – Two Magnetos	Unison Impulse			
	Magnetos 4371 with the			
	appropriate ignition			
	harness			
Timing – °BTC	R: 25°, L: 25°			
Spark Plugs	Champion REM40E,			
	Unison UREM40E		_	
Oil Sump Capacity	8 quarts; 6 qts. usable at			
	20° noseup, and 6.5 qts.			
	usable at 10° nosedown			
	attitudes			

— — indicates "same as preceding model"

	10.3(0.1112.1212	TO 300 DILLO DOLLO	10.260.5112	10 200 E1 12
Model	IO-360-A1A2, A2A2,	IO-360-B1A2, B2A2,	IO-360-D1A2,	IO-360-E1A2,
	A3A2	B3A2, B4A2, B5A2,	D2A2, D3A2,	E2A2, E3A2
		B6A2, C1A2, C2A2, C3A2	D4A2, D5A2, D6A2	
The state of the s	11101	CSAZ	DOAZ	
Type	4HOA			
Rating				
U.S. Standard Atmosphere and ICAO at				
Sea Level Pressure Altitude	100			
Take-Off/Max. Continuous HP	180			
Take-Off/Max. Continuous RPM	2700			
Take-Off/Max. Cont. Manifold Press. – in	29.5			
Hg				
Fuel				
Aviation Gasoline	ASTM D910, Min Grade			
	91/98 (lead optional)			
Motor Gasoline (R+M/2) (See Note 7)	ASTM D4814, Min			
	Octane 91 (no alcohol)			
Lubricating Oil	See Installation &			
	Operation Manual,			
	SVIOM01			
Bore and Stroke – in	5.125 x 4.375		——	
Displacement – cubic in	361			
Compression Ratio	8.5:1			
Weight (Basic Engine, Dry) – lbs	290	293	296	297
See Installation & Operation Manual,				
SVIOM01, for detailed model weights				
C.G. Location (Basic Engine)	See Installation &			
	Operation Manual,			
	SVIOM01			
Principal Dimensions – in	24.0 x 33.4 x 32.8			
(Height x Width x Length)				
Propeller Shaft	Direct, SAE Modified			
•	Type 2 per AS127			
Fuel System	Precision Airmotive Fuel			
	Injection RSA-5 type			
Ignition – Two Magnetos	Unison Impulse			
	Magnetos 4371 with the		1	
	appropriate ignition	ļ		
	harness			
<u> </u>	1 11111100			

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Model	IO-360-A1A2, A2A2,	10-360-B1A2, B2A2,	IO-360-D1A2,	IO-360-E1A2,
	A3A2	B3A2, B4A2, B5A2,	D2A2, D3A2,	E2A2, E3A2
		B6A2, C1A2, C2A2,	D4A2, D5A2,	
		C3A2	D6A2	
Timing - °BTC	R: 25°, L: 25°			
Spark Plugs	Champion REM40E,			— —
	Unison UREM40E			
Oil Sump Capacity	8 quarts; 6 qts. usable at			
	20° noseup, and 6.5 qts.			
	usable at 10° nosedown			
	attitudes			

- indicates "same as preceding model"

Model	10-360-A1A1, A2A1, A3A1	IO-360-B1A1, B2A1, B3A1, B4A1, B5A1, B6A1, C1A1, C2A1,	IO-360-D1A1, D2A1, D3A1, D4A1, D5A1,	IO-360-E1A1, E2A1, E3A1
T	4110.4	C3A1	D6A1	
Туре	4HOA			
Rating U.S. Standard Atmosphere and ICAO at Sea Level Pressure Altitude Take-Off/Max. Continuous HP Take-Off/Max. Continuous RPM Take-Off/Max. Cont. Manifold Press. – in Hg	168 2700 29.5			
Fuel				
Aviation Gasoline	ASTM D910, Min Grade			
Motor Gasoline (R+M/2) (See Note 7)	91/98 (lead optional) ASTM D4814, Min Octane 91 (no alcohol)			
Lubricating Oil	See Installation & Operation Manual, SVIOM01			
Bore and Stroke – in	5.125 x 4.375			
Displacement – cubic in	361			
Compression Ratio	7.2:1			
Weight (Basic Engine, Dry) – lbs See Installation & Operation Manual, SVIOM01, for detailed model weights	290	293	296	297
C.G. Location (Basic Engine)	See Installation & Operation Manual, SVIOM01			
Principal Dimensions – in (Height x Width x Length)	24.0 x 33.4 x 32.8			
Propeller Shaft	Direct, SAE Modified Type 2 per AS127			
Fuel System	Precision Airmotive Fuel Injection RSA-5 type			
Ignition – Two Magnetos	Unison Impulse Magnetos 4371 with the appropriate ignition harness			
Timing - °BTC	R: 25°, L: 25°			
Spark Plugs	Champion REM40E, Unison UREM40E			
Oil Sump Capacity	8 quarts; 6 qts. usable at 20° noseup, and 6.5 qts. usable at 10° nosedown attitudes			

indicates "same as preceding model"

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CERTIFICATION BASIS: PRODUCTION BASIS:

FAR 33 Through Amendment 20, effective 12/13/2000

Production Certificate 14SW

		O-360	10-360
NOTE 1.	Maximum Permissible Temperatures		_
	Oil at Engine Inlet	240° F	
	Cylinder Head Temperature	500° F	
NOTE 2.	Fuel Pressure Limits		
	Inlet to Pump, Min.	+0.5 psig	-2 psig
	Max.	+8 psig	+35 psig
NOTE 3.	Oil Pressure Limits into Engine		
	Normal	55-95 psig	
	Idle	20 psig	
	Max (Cold Oil)	115 psig	

[—] indicates "same as preceding model"

NOTE 4. The following accessory drive or mounting provisions are available:

	Direction of	Drive Ratio to	Max. To (in-lb		Max. Overhang Moment
Accessory	Rotation*	Crankshaft	Continuous	Static	(in-lbs)
Tachometer	CW	0.5:1	7	50	5
Starter	CCW	16.56:1	N/A	450	150
Alternator (not supplied)	CW	3.25:1	60	120	175
Propeller Governor, Rear**	CW	0.866:1	125	825	40
Propeller Governor, Front**	CW	0.895:1	125	825	40
Fuel Pump	Reciprocating	0.5:1	N/A	N/A	10
Accessory Drive***	CCW	1.3:1	70	450	25

^{* &}quot;CW" - Clockwise; and "CCW" - Counterclockwise (Viewing Drive Pad)

NOTE 5. The O-360 and IO-360 engines' detailed model designation includes a model suffix, which denotes details about the engine configuration in the format: O or IO-360-(letter)(number)(letter)(number). The first suffix digit is a letter which designates the crankshaft/propeller configuration: with 'A' designating provisions for a fixed pitch propeller, with a thin-wall front main bearing journal, 'B' designating provisions to control propeller pitch with pressurized oil, with a thin-wall front main bearing journal, 'C' designating provisions for a fixed pitch propeller, with a heavy-wall front main bearing journal, 'D' designating provisions to control propeller pitch with pressurized oil, with a heavy-wall front main bearing journal and 'E' designating provisions for a fixed pitch propeller, with a solid front main bearing journal. The second suffix digit is a number which designates crankcase/engine mount configuration: with '1' designating a #1 dynafocal engine mount type, '2' designating a #2 dynafocal engine mount type, '3' designating a conical engine mount type, '4' designating a #1 dynafocal engine mount with a crankcase utilizing a front mount prop governor, '5' designating a #2 dynafocal engine mount with a crankcase utilizing a front mount prop governor, and '6' designating a conical engine mount with a crankcase utilizing a front mount prop governor. The third suffix digit is a letter which designates accessory configuration, with 'A' being the only configuration. The last digit is a number designating power rating/compression ratio: with '1' being the low-compression configuration and with '2' being the high-compression configuration.

NOTE 6. Initial TBO of 1000 Hours

NOTE 7. Experience has shown that there is a higher probability of vapor locking on aircraft, especially on those equipped with fuel injected reciprocating engines when operating with high volatility fuels such as motor gasoline. Aircraft fuel system designs for the powerplant installation of these engines may need to incorporate special design features or enhanced cooling to accommodate operation with high volatility fuels such as motor gasoline. The aircraft fuel system hot weather testing requirements of FAR 23.961 must be successfully accomplished for each aircraft powerplant installation design of these engines (both carbureted and fuel injected) to obtain approval for operation with motor gasoline, reference AC 23.1521-1B.

^{**} This is an AND20010 drive pad and only applicable to models with provisions to control propeller pitch and shall be supplied with a cover.

^{***} This is an AND20000 drive pad and shall be supplied with a cover.

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

Number SE8193SW

This certificate, issued to Superior Air Parts, Inc. P. O. Box 363 Addison, TX 75001

cortifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 13 of the CAR Regulations.

Conginal Product — Type Cartificate Number See page 2

Make Textron Lycoming

Medel See page 2

Description of Type Design Change:

Grind nitrided high compression cylinder barrels to plus .010 oversize and install SL75089 P10 Piston, SL74241 P10 Compression Ring, and SL 73857 P10 Oil Ring in accordance with Superior Air Parts, Inc., Service letter No. 92-003 dated April 22, 1992, or latter FAA approved revisions.

Limitations and Conditions

Plus 10 piston and piston rings should be installed in complete engine sets (All cylinders). Compatibility of this modification with previously installed equipment must be determined by the installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Late of application June 27, 1991

Date reissued :

Late of issuance: April 27, 1992

Tale amended :

To a local distriction of the second distric

By direction of the Administrator

Mark R. Schilling, Manager Special Certification Office

(Title)

Department of Transportation—Kederal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SE8193SW

The following engines and their respective Type Certificate Numbers are eligible for this installation:

- Type Certificate Number E-274 O-320-B1A, B1B, B2B, B2C, B3B, B3C, D1A, D1AD, D2A, D2B, D1C, D2C, D1D, D1F, D2G, D3G, D2J.
- Type Certificate Number 1E12
 10-320-B1A, B2A, B1C, B1D, B1E, C1A, C1B, C1F, D1A,
 D1AD, D1B. LIO-320-B1A, C1A. AIO-320-A1B, B1B, C1B.
 AEIO-320-D1B, D2B.
- Type Certificate Number E-277 0-340-AlA, AlB, A2A.
- Type Certificate Number E-286 O-360-AlA, AlAD, AlC, AlD, AlF, AlF6, AlF6D, AlG, AlG6,
 AlG6D, AlH, AlH6, AlJ, AlLD, A2A, A3A, A3AD, A4A, A4AD,
 A5AD, A2D, A4D, A2E, A2F, A2G, A4G, A4J, A4JD, A4K,
 A4M, A4N, ClA, ClC, C2A, C2C, C2D, ClE, C2E, ClF, ClG,
 FlA6, GlA6. HO-360-AlA, BlA, BlB. LO-360-AlG6D, AlH6.
- Type Certificate Number 1E10 10-360-B1A, B1B, B1BD, B1D, B1E, B1F, B2E, B2F, B2F6,
 B4A. HIO-360-B1A. AEIO-360-B1B, B1F, B2F, B4A, B1G6,
 H1A.
- Type Certificate Number 1E1 IVO-360-A1A. VO-360-A1A, A1B, B1A.
- Type Certificate Number E-295 O-540-A1A, A1A5, A4A5, A1B5, A4B5, A1C5, A4C5, A1D,
 A1D5, A4D5, A2B, A3D5, E4A5, E1A, E4B5, E4B5D, E4C5,
 F1A5, F1B5, G1A5, G1A5D, G2A5, H1B5D, H2B5D, L3C5D.
- Type Certificate Number 1E4
 IO-540-C1B5, C4B5, C4B5D, C1C5, C4C5, C4D5D, C2C, D4A5,
 D4B5, D4C5, J4A5, R1A5, N1A5, N1A5D, T4A5, T4B5D,
 T4C5D, V4A5D. AEIO-540-D4A5, D4B5.
- Type Certificate Number E14EA TIO-540-G1A.

Department of Transportation — federal Aviation Administration

Supplemental Type Certificate

Number SE7674SW

This certificate, issued to Superior Air Parts, Inc. P. O. Box 363 Addison, TX 75001

certifies that the change in the type design for the following product with the limitations and conditions

therefor as specified hereon meets the aircordiness requirements of Gart 33 of the Federal Aviation Regulations.

Criginal Product - Type tiertificate Sumber:

Make: Textron Lycoming

Mudd: See continuation sheet page 3 of this

Lescription of Type Design Change:

Grind nitrided cylinder barrels to .010 and install SL10545P10 plus .010 over size pistons, SL74241P10compression rings and SL73857P10 Oil Control Rings as specified in Superior Air Parts Service letter No. 89-005A dated January 22, 1990, or later FAA approved data.

Limitations and Conditions

Compatability of this modification with previously installed equipment must be determined by installer. Plus .010 pistons and rings should be installed in complete sets.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, reveked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Tale of application: July 21, 1989

Late of issuance

By direction of the Administrator Mack K. Rhilling

Mark R. Schilling, Manager Special Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SE7674SW Rev. 2

The following is a list of eligable engines and the respective Type Certificates.

TYPE CERTIFICATE NUMBER: Engine Model

E2628 TO-360-C1A6D, TO-360-F1A6D

E16E4 TIO-360-A1B, TIO-360-A3B6,

TIO-360-C1A6D

1E4 IO-540-AA1A5

> TIO-540-A1A, TIO-540-A1B TIO-540-A2A, TIO-540-A2B TIO-540-A2C TIO-540-F2BD TIO-540-J2B, TIO-540-J2BD TIO-540-N2BD, TIO-50-R2AD

TIO-540-S1AD, TIO-540-U2A E14EA TIO-540-V2AD, LTIO-540-F2BD LTIO-540-J2B, LTIO-540-J2BD

LTIO-540-N2BD, LTIO-54-R2BD LTIO-540-U2A, LTIO-540-V2AD

E19EA TIGO-541-D1B, TIGO-541-E1A

TIO-541-A1A, TIO-541-E1A4 E1DEA TIO-541-E1B4, TIO-541-E1C4

TIO-541-E1D4,

--end--

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number 3259458W

This certificate, issued to Superior Air Parts, Inc. 15050 Beltwood Parkway East Addison, Texas 75001

cortifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 13 of the Civil Air Regulations

Original Product - Type Certificate Number: 8-223

Make: Avco Lycoming

Model: 0-235-K, L, M, N, P Series

Lescription of Type Lesign Change:

Grind nitrided choked engine cylinders .010" oversize and install .010" oversize pistons and rings as specified in Superior Air Parts Service Letter No. 35-005 dated June 18, 1985, or later FAA approved revision.

Limitations and Conditions

Compatibility of this modification with other previously approved modifications must be determined by the installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration

Tale of application: May 30, 1985

Date reissued

Tale of issuance: June 18, 1985

Date amended:



By direction of the Administrator

Don 9. Watson

Manager, Aircraft Cortification Division

Southwest Region

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SE7582SW

This Certificate issued to

Superior Air Parts, Inc. 621 South Royal Lane Coppell, TX 75019

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified heroon meets the wirworthiness requirements of Part 13 of the Civil . Air Regulations.

Original Product Type Certificate Number: See attached FAA Approved

Model List (AML) for list of approved models

And applicable airworthiness regulations.

Description of Type Design Change:

Grinding of high compression NITRIDED Cylinders to .010 oversize, as an alternative to chrome plating or rebarreling, and the installation of SL75089 P10 Piston, SL74241 P10 Top and second compression ring, and SL 73857 P10 oil control ring in accordance with Superior Air Parts, Inc. Service letter No. L89-04 D dated August 20, 2008 or later FAA approved revision.

Limitations and Conditions:

The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Autministrator of the Federal Aviation Administration.

Date of application: August 15, 1988

Late of issuance: April 11, 1989

Date reissued:

Dute amended: September 9, 2008, Revision 1

By direction of the Administrator

S. Frances Cox, Manager Special Certification Office

Southwest Region

(Title)



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FAA APPROVED MODEL LIST (AML)

STC No. SE7582SW

Superior Air Parts, Inc. 621 South Royal Lane Coppell, TX 75019

Date of Issuance: April 11, 1989

Item	mended: September 8, Engine Make	Engine Models	Original Type	Regulation/
Hem	Engine wake	Engine Wiodeis	Certificate Number	Part
1	IO-360	-A1A, -A1B, -A1B6, -A1B6D, -A1C, - A1D, -A1D6, -A1D6D, -A2A, -A2B, - A2C, -A3B6, -A3B6D, - A3D6D, - C1A, -C1B, -C1C, -C1C6, -C1D6, - C1E6, -C1E6D, -C1F, -C1G6, -D1A, - J1AD, -J1A6D, -K2A	1E10	CAR 13
2	AIO-360	-A1A, -A1B, -A2A, -A2B, -B1B	1E10	CAR 13
3	AEIO-360	-C1E6	1E10	CAR 13
4	HIO-360	-A1A, -A1B, -C1A, -C1B	1E10	CAR 13
5	LHIO-360	-C1A, -C1B	1E10	CAR 13
6	GO-480	-C1B6, -C1D6, -C2C6, -C2D6, -C2E6, -G1A6, -G1B6, -G1D6, -G1H6, -G1J6, -G2D6, -G2F6	E275	CAR 13
7	IGO-480	-A1A6, -A1B6	E275	CAR 13
8	10-540	-A1A5, -B1A5, -B1B5, -B1C5, -E1A5, -E1B5, -E1C5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1E5, -K1A5, - K1A5D, -K1B5, -K1B5D, -K1C5, - K1D5, -K1E5, -K1E5D, -K1F5, - K1F5D, -K1G5, -K1G5D, -K1H5, - K1J5, -K1J5D, -K1K5, -K2A5, -L1A5, -L1A5D, -L1B5D, -L1C5, -M1A5, - M1A5D, -M1B5D, -M1C5, -M2A5D, - P1A5, -S1A5, -U1A5D, -U1B5D, - AC1A5, -AE1A5	1E4	CAR 13
9	HIO-540	-A1A	1E4	CAR 13
10	AE1O-540	-L1B5, -L1B5D, -L1D5	1E4	CAR 13
11	1GO-540	-A1A, -A1B, -A1C, -B1A, -B1A, -B1B, -B1C	1E11	CAR 13
12	VO-540	-C1A, -C1B, -C1C3, -C2A, -C2B, -C2C	E-304	CAR 13
13	1VO-540	-A1A	E11EA	CAR 13
14	IO-720	-A1A, -A1B, -A1BD, -B1A, -B1B, - B1BD, -C1B, -C1BD, -D1B, -D1BD, - D1C, -D1CD	1E15	CAR 13

AA Approved:	FAA
S. Frances Cox	
Manager, Special Certification Office,	
Southwest Region	

Date:			

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Theird States of America

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

Number SE7582SW

This cortificate, issued to

Superior Air Parts, Inc. P. O. Box 363 Addison, TX 75001

contifies that the change in the type design for the following product with the limitations and conditions

therefor as specified hereon meets the airworthiness requirements of Parl 13 of the Civil Air

Regulations.

Original Product — Type Cortificate Number:
Page 2
Make: Textron Lycoming
Model See Page 2

Description of Tripe Design Change:

Grinding of high compression NITRIDED Cylinders to .010 oversize, as an alternative to chrome plating or rebarreling, and the installation of SL10207 Pl0 Piston, SL74241 Pl0 Top and second compression ring, and SL73857 P10 oil control ring in accordancewith Superior Air Parts, Inc. procedure for gringing high compression NItrided cylinder barrales and installation of Q10 oversize pistons and rings, dated 8/15/88, or later FAA Limitations and Conditionapproved revision. See Continuation Sheet

Compatibility of this modification with previously installed equipment must be determined by installer.

This corlificate and the supporting data which is the basis for approval shall remain in effect until surmendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration

Dale of application:

August 15, 1988

Tale of issuance:

April 11, 1989

Dale smended:

By direction of the Administrator

(Signature)
L. B. Andriesen

Manager, Rotorcraft Directorate, Aircraft CertIfi/cation Service

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Department of Transportation—Jederal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number

SE7582SW

Limitations and Conditions (Continued):

The following engines and their respective Type Certificate Numbers are eligible for this installation:

Type Certificate Number 1E10 -

IO-360-Ala, AlB, AlB6, AlB6D, AlC, AlC6, AlD, AlD6, A2A, A2B, A2C, ClA, ClB, ClC, ClC6, ClD6, ClE6, ClE6D, D1A, ClF, J1A6D, K2A, A3B6D. Al0-360-AlA, AlB, BlB. AEIO-360-AlA, AlB, AlB6, AlD, AlE, A2B. LIO-360-ClE, ClE6, ClE6D. HIO-360-AlA, ClA, ClB. LHIO-360-ClA.

Type Certificate Number E-275-10 -

GO-480-C1B6, C1D6, C2 SERIES, G2D6, G2F6, G1A6, G1AG(HELIO), G1B6, G1D6(HELIO), G1D6, G1E6, G1F6, G1G6, G1J6. IGO-480-A1B6(HELIO).

Type Certificate Number 1E4-11 -

IO-540-M1A5, E1B5, A1A5, G1A5, G1B5, G1C5, G1D5, G1E5, K1A5, K1B5, K1D5, K1F5, L1A5, B1A5, B1C5, E1A5, E1B5, G1F5, K1C5, K1E5, P1A5, S1A5, K1A5D, K1F5D, K1G5, K1G5D, K1H5, K1J5, K1J5D, K1K5, L1A5D. HIO-540-A1A. AEIO-540-L1B5D. IO-540-M1A5D, M1B5, M1B5D, U1A5D, U1B5D, K1E5D, S1A5.

Type Certificate Number 1 E11-5 -

IGO-540-A1A, A1C, B1A, B1C.

Type Certificate Number E-304-6 -

VO-540-C1A, C1B, C1C3, C2A, C2C.

Type Certificate Number E-11EA-2 -

IVO-540-A1A.

Type Certificate Number 1E15-5 -

IO-720-A1A, D1B, A1B, B1B, C1B, D1B, B1BD, D1C, D1CD END

Case 08-36705-bjh11 Doc 4-6 Filed 12/31/08 Entered 12/31/08 19:42:55 Schedule B23 - Type Certificates Page 16 of 33

United States of America

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

Number SE8675SW

This certificate, assued to Superior Air Parts, Inc. P. O. Box 363 Addison, TX 75001

certifies that the change in the type design for the following product with the limitations and conditions therefor no specified herein meets the virworthiness requirements of Part 13 of the Civil Air Regulations.

Original Product - Type Certificate Number: E-252

Make Teledyne Model: 0-200

Description of Type Design Change:

The magneto timing for the Teledyne Continental Motors 0-200 engine to be set at 28 degrees before top dead center (BTC). The setting is to be made in accordance with Superior Air Parts, Inc. Service Letter 93-004, dated 08/24/93.

Limitations and Conditions:

The magneto timing may be set at 28 degrees BTC only when Four Superior Air Parts, Inc. SA10200 Series Millinnium 0-200 cylinders are installed in the Teledyne Contenintal 0-200 engine. Compatibility of this modification with previously installed equipment must be determined by installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, reviked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Late of application: July 1, 1993

Interissued

Sale of issuance: August 24, 1993

Date umended.



By direction of the Stateministrates

Mark R. Schilling Manager Special Certification Office

Any attention of this certificate in punishable by a fine of not exceeding \$1,000, or conference on not exceeding 3 years, or both.

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SE09014SC

This Certificate issued to

Superior Air Parts, Inc. 14280 Gillis Road Dallas, TX 75244-3792

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 13 of the Civil Aix Regulations.

Original Product - Type Certificate Number: E-205

Make: Teledyne Continental

Model: A-65-1, A-65-3, A-65-6, A-65-7, A-65-8, A-65-9

A-65-12, A-65-14

escription of Type Design Change:
Installation of Superior Air Parts, Inc. Millennium series Cylinder Power Assemblies
Part Number SA65000-A20P in accordance with Superior Air Parts, Inc. Service Letter
No. 95-009, dated 06/30/95, manufactured in accordance with Superior Air Parts, Inc.
Drawing No. SA65000SO, I.R., dated 2/24/95, or later FAA approved revision.

Bimitations and Conditions: Installation of Superior Air Parts Cylinder assemblies must be installed in complete sets of four and can not be intermixed with the Teledyne cylinder assemblies. An Airframe STC is not required for installation of an engine modified by this STC. Compatibility of this design change with previously approved modifications must be determined by the installer.

This certificate and the supporting data which is the basis for approval shall remain in offect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: September 30, 1993

Date of issuance: March 13, 1995

Date reissued:

Dale amended: September 15, 1995, Rev. 1

TOMINISTRATION

By direction of the Administrator

(Signature)

A. J. Merrill

Manager, Special Certification Office Southwest Region

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Department of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SE09014SC

This Certificate issued to

Superior Air Parts, Inc. 14280 Gillis Road Dallas, TX 75244-3792

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Fart 13 of the Civil Air Regulations.

Original Product - Type Certificate Number: E-205

Make:

Teledyne

Model: A-65-1, A-65-3, A-65-6, A-65-7, A-65-8, A-65-9,

A-65-12, A-65-14

Description of Type Design Change:

Installation of Superior Air Parts, Inc. Millennium series Cylinder Power Assemblies Part Number SA65000-A20P in accordance with Superior Air Parts, Inc. Service Letter No. 95-009, dated 06/30/95, or later FAA approved revision.

Limitations and Conditions: Installation of Superior Air Parts Cylinder assemblies must be installed in complete sets of four and can not be intermixed with the Teledyne cylinder assemblies. An Airframe STC is not required for installation of an engine modified by this STC. Compatibility of this design change with previously approved modifications must be determined by the installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: September 30, 1993

Date of issuance: March 13, 1995

Date reissued:

Date amended:



By direction of the Administrator

Manager, Special Certification Office

Southwest Region

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.



Southwest Region Arkansas, Louisiana, New Mexico, Oklahoma, Texas

Fort Worth, Texas 76193-0000

OCT U.5 1995

Mr. Scott Sedgwhick Superior Air Parts, Inc. P. O. Box 363 Addison, TX 75001

Dear Mr. Sedgwhick:

Enclosed is amended Supplemental Type Certificate (STC) SE09014SC, Rev. 1, dated September 15, 1995, for the installation of Teledyne Continental A-65-1, A-65-3, A-65-6, A-65-7, A-65-8, A-65-9, A-65-12, A-65-14 engines. The revision is to include Superior Air Parts, Inc. Drawing No. SA65000SO, I.R., dated 2/24/95. This STC represents official FAA approval of an alteration and may be used to authorize identical installations on other aircraft. A copy of this STC should be provided with each installation. Instructions necessary for an installer to complete and inspect this alteration must be provided with parts shipments. Modified aircraft should be returned to service by means of an FAA Form 337 which refers to this STC.

You have the responsibility to report failures, malfunctions, or defects in any product or part manufactured by you that has resulted or could result in any of the occurrences listed in Federal Aviation Regulation (FAR) Part 21.3(c). Notify the Manager, Rotorcraft Directorate, (817) 222-5100, within 24 hours by telephone. Written notification to the Rotorcraft Directorate, Fort Worth, Texas 76193-0100 is also required. FAA Form 8330-2 (Malfunction or Defect Report) or any other appropriate format is acceptable in transmitting the required details.

If you plan to manufacture replacement or modification parts for sale, you must comply with FAR Parts 21.303 and 45.15. A Parts Manufacturer Approval (PMA) may be issued under the provisions of FAR 21.303(d) when you submit a statement certifying that you have established a fabrication inspection system as required by FAR 21.303(h). Your statement may be in letter form, with a reference to the STC number, and should be mailed to: Manager, Manufacturing Inspection Office, Department of Transportation, Federal Aviation Administration, Fort Worth, Texas 76193-0180.

2

Sincerely,

A. J. Merrill, Manager Special Certification Office, Aircraft Certification Service

Enclosure



Southwest Region Arkansas, Louisiana, New Mexico, Oklahoma, Texas

Fort Worth, Texas 76193-0000

AUG 2 9 1995

Mr. Scott Sedgwhick Superior Air Parts, Inc. 14280 Gillis Road Dallas, TX 75244-3792

Dear Mr. Sedgwhick:

We have completed our evaluation of your Supplemental Type Certificate (STC) project, FAA Project Number ST2416SC-E, and find that you have satisfactorily demonstrated compliance with the applicable certification regulations. Accordingly, we have enclosed STC SE09014SC, which indicates our approval of the installation of modified cylinder assembly on Teledyne Continental A-65 engines.

This STC is official Federal Aviation Administration (FAA) approval of your installation and may be used to authorize identical installations on other aircraft of the same model, subject to the limitations noted on the certificate. It may be transferred or otherwise made available to another party by means of a licensee arrangement in accordance with Federal Aviation Regulation (FAR) 21.47. You are required to advise this office within 30 days after the transfer when you transfer or grant licensee rights to the STC in order that we may take the necessary recording or reissuance action.

As recipient of this approval, except as provided in FAR 21.3(d), you are required to report any failure, malfunction, or defect in any product or part manufactured by you that you have determined has resulted or could result in any of the occurrences listed in FAR 21.3(c). The report should be communicated initially by telephone to the Manager, Rotorcraft Directorate, (817) 222-5100, within 24 hours after it has been determined that the failure has occurred. In addition, written notification to the Manager, Rotorcraft Directorate, Fort Worth, Texas 76193-0100 is also required. FAA Form 8330-2 (Malfunction or Defect Report) or any other appropriate format is acceptable in transmitting the required details.

2

If you plan to manufacture replacement or modification parts for sale in conformance with approved data listed on the Certificate, you are required to comply with FAR 21.303. A Parts Manufacturer Approval (PMA) may be issued under the provisions of FAR 21.303(d) when you submit a statement certifying you have established the fabrication inspection system as required by FAR 21.303(h). The identification requirements for parts produced under a PMA are in FAR 45.15. Your statement may be in letter form, with reference to STC SE09014SC, and should be addressed to the Federal Aviation Administration, Manager, Manufacturing Inspection Office, Fort Worth, Texas 76193-0180

Sincerely,

A. J. Merrill, Manager Special Certification Office, Aircraft Certification Service

Enclosure

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Department of Transportation - Kederal Abiation Administration

Supplemental Type Certificate

Number SE09014SC

This Certificate issued to

Superior Air Parts, Inc. 14280 Gillis Road Dallas, TX 75244-3792

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 13 of the Civil Air Regulations

Original Product - Type Certificate Number: E-205

Teledyne

Model: A-65-1, A-65-3, A-65-6, A-65-7, A-65-8, A-65-9,

A-65-12, A-65-14

Description of Type Design Change:

Installation of Superior Air Parts, Inc. Millennium series Cylinder Power Assemblies Part Number SA65000-A20P in accordance with Superior Air Parts, Inc. Service Letter No. 95-009, dated 06/30/95, or later FAA approved revision.

Limitations and Conditions: Installation of Superior Air Parts Cylinder assemblies must be installed in complete sets of four and can not be intermixed with the Teledyne cylinder assemblies. An Airframe STC is not required for installation of an engine modified by this STC. Compatibility of this design change with previously approved modifications must be determined by the installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: September 30, 1993

Date of issuance: March 13, 1995

Date reissued:

Date amended:



By direction of the Administrator

A. J. Merrill

Manager, Special Certification Office

Southwest Region

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Department of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SE8193SW

This Certificate issued to

Superior Air Parts, Inc. 621 South Royal Lane Coppell, TX 75019

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 13 of the Civil Air Regulations.

Criginal Product Type Certificate Number:

See page 2

Monker

Textron Lycoming

Model.

See page 2

Description of Typer Gesign Change: Grind nitrided high compression cylinder barrels to plus .010 oversize and install SL75089 P10 Piston, SL74241 P10 Compression Ring, and SL 73857 P10 Oil Ring in accordance with Superior Air Parts, Inc., Service letter No. L92-03 D dated July 10, 2008 or latter FAA approved revisions.

Similations and Conditions: Plus 10 piston and piston rings should be installed in complete engine sets (All cylinders). The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, recoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 27, 1991

Date reissued

Gute of issuance: April 27, 1992

Late umended July 31, 2008

TOMINISTRATION

Isy direction of the Deliministrator

S. Frances Cox, Manager Special Certification Office

Southwest Region

(Title

Bepartment of Transportation - Nederal Abiation Administration

Supplement Type Certificate

(Continuation Sheet)

Number SE8193SW

Date of Issuance: April 27, 1992 Date of Amendment: July 31, 2008

The following engines and their respective Type Certificate Numbers are eligible for this installation:

Type Certificate Number E-274 -

O-320-A2C, -B1A, -B1B, -B2A, -B2B, -B2C, -B2D, -B2E, -B3A, -B3B, -B3C, -D1A, -D1B, -D1C, -D1D, -D1F, -D2A, -D2B, -D2C, -D2F, -D2G, -D2H, -D2J, -D3G.

Type Certificate Number 1E12 -

1O-320-B1A, -B1B, -B1C, -B1D, -B1E, -B2A, -C1A, -C1B, -D1A, -D1B, -D1C, -F1A LIO-320-B1A, -C1A A1O-320-A1A, -A1B, -A2A, -A2B, -B1B, -C1B AEIO-320-D1B, -D2B

Type Certificate Number E-277 -

O-340-A1A, -A1B, -A2A

Type Certificate Number E-286 -

O-360-A1A, -A1AD, -A1C, -A1D, -A1F, -A1F6, -A1F6D, -A1G, -A1G6, -A1G6D, -A1H, -A1H6, -A1LD, -A1P, -A2A, -A2E, -A2F, -A2G, -A2H, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4G, -A4J, -A4K, -A4M, -A4P, -A5AD, -C1A, -C1C, -C1E, -C1F, -C1G, -C2A, -C2B, -C2C, -C2D, -C2E, -C4F, -C4P, -F1A6, -G1A6, -J2A
HO-360-A1A, -B1A, -B1B, -C1A
LO-360-A1G6D, -A1H6

Type Certificate Number 1E10 -

IO-360-B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F6, -B1G6, -B2E, -B2F, -B2F6, -B4A, -E1A, -F1A, -L2A, -M1A, -M1B

HIO-360-A1A, -B1B, -G1A AEIO-360-AB1B, -B1D, -B1F, -B1F6, -B1G6, -B1H, -B2F, -B2F6, -B4A, -H1A, -H1B

Type Certificate Number 1E1 -

VO-360-A1A, -A1B, -B1A 1VO-360-A1A

Type Certificate Number E-295 –

O-540-A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A3D5, -A4A5, -A4B5, -A4C5, -A4D5, -D1A5, -E4A5, -E4B5, -E4C5, -F1A5, -F1B5, -G1A5, -G2A5, -H1A5, -H1A5D, -H1B5D, -H2A5, -H2A5D, -H2B5D, -L3C5D

Type Certificate Number 1E4 -

IO-540-C1B5, -C1C5, -C2C, -C4B5, -C4B5D, -C4C5, -C4D5, -C4D5D, -D4A5, -D4B5, -D4C5, -J4A5, -N1A5, -R1A5, -T4A5D, -T4B5, -T4B5D, T4B5D, T4B5D, T4C5D, V4A5, -V4A5D AEIO-540-D4A5, -D4B5, -D4C5, -D4D5

Type Certificate Number E14EA -

TIO-540-G1A

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of the Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplem	nental Type Certificate l	Number		
to (Name of transferee)				
(Address of transferee)		(Number and street)		
		(City, State, and ZIP code)		
from (Name of grantor)(Print or ty	vpe) _			
(Address of grantor)		(Number and street)		
		(City, State, and ZIP code)		
Extent of Authority (if licensing agreement):				
Date of Transfer:				
Signature of grantor (In i	nk):			



Department of Transportation Federal Striction Administration

ENGINE

Type Certificate

Number <u>cocous</u>c

Shis certificate issued to Superior Air Parts, Incorporated certifies that the type design for the following product with the operating limitations and conditions therefor as specified in the Federal Asiation Regulations and the Type Certificate Data Thest, most the aircraftings requirements of Part 33 of the Federal Asiation Regulations.

Models O-360

IQ-360

This certificate, and the Sype Certificate Data Thest which is a part hereof, shall remain in effect until currendered, suspended, exclude, or a termination date is otherwise established by the Administrator of the Federal Aciation Administration.

Bala of applications July 17, 2001

Bate of tunners March 31, 2004

My differsion of the Administrator

S. Francis Co.

Manager Special Gentifictains Office

(544) <u>Sámbwen Region</u>

This certificate may be transferred if endorsed as provided on the reverse hereof.

Department of Transportation Federal Striction Administration

ENGINE

Type Certificate

Number <u>cocous</u>c

Shis certificate issued to Superior Air Parts, Incorporated certifies that the type design for the following product with the operating limitations and conditions therefor as specified in the Federal Asiation Regulations and the Type Certificate Data Thest, most the aircraftings requirements of Part 33 of the Federal Asiation Regulations.

Models O-360

IQ-360

This certificate, and the Sype Certificate Data Thest which is a part hereof, shall remain in effect until currendered, suspended, exclude, or a termination date is otherwise established by the Administrator of the Federal Aciation Administration.

Bala of applications July 17, 2001

Bate of tunners March 31, 2004

My differsion of the Administrator

S. Francisco Con

Manager Special Gentifictains Office

(366) Southwest Resign

This certificate may be transferred if endorsed as provided on the reverse hereof.

European Aviation Safety Agency



TYPE CERTIFICATE

EASA.(IM).E.024

This certificate, established in accordance with Regulations (EC) No 1592/2002 and (EC) No 1702/2003 and issued to

Superior Air Parts, Inc.

621 South Royal Lane, Suite 100 Coppell Texas 75019-3805 USA

Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified on the associated Type Certificate Data Sheet No. (IM).E.024

Model	Date of issue	
O-360	02 November 2006	
10-360	02 November 2006	

This certificate and its associated type-certificate data sheet, which is a part thereof, shall remain valid unless otherwise surrendered or revoked.

For the European Aviation Safety Agency,

Certification Manager Propulsion Certification Directorate

Department of Transportation

Federal Ariation Administration

ENGINE

Type Certificate

Number E000018C

Shis coelificate assed to Superior Air Parts, Incorporated

carlifier that the type design for the following product with the operating limitations and conditions therefor as specified in the Federal Aviation Regulations and the Type Corlificate Bate Theol, mosts the airmorthiness requirements of Fart 33. of the Federal Aviation Regulations.

Models 0-360 10-360

This carlificals, and the Type Eerlificals Data Theel which is a part horsef, shall remain in offect until surroudered, suspended, smoked, or a termination date is alkernica salabilished by the Administrator of the Federal Aniation Administration.

904 of 444600000 July 17, 2001

2004 of assessme March 31, 2004

By direction of the Administrator

Manager Special Gentfickaion Office

This certificate may be transferred if enclosed as provided on the reverse hereof.

Any attention of this configure and/or the Type Confidure Data Shees is punishable by a fine of not exceeding \$1,000, or impetionment not exceeding \$ pears or both.

FAA FORMATIO & GADI

Case 08-36705-bjh11 Doc 4-6 Filed 12/31/08 Entered 12/31/08 19:42:55 Desc Schedule B23, Temper Certificates Page 32 of 33

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

Air Agency Certificate

Number 5SPR667Y

This certificate is issued to Superior Air Parts, Inc. whose business address is

621 South Royal Lane, Suite 100 Coppell, TX 75019-3805

upon finding that its organization complies in all respects with the requirements of the Federal Aviation Regulations relating to the establishment of an Air Agency, and is empowered to operate an approved

with the following ratings:
Limited Powerplant

This certificate, unless canceled, suspended, or revoked, shall continue in effect indefinitely

Dale issued.

June 12, 2007

By direction of the Administrator

Lewis C. Gonzales Ir

Manager, Dallas FSDO-05

This Certificate is not Cransferable, and any major change in the basic facilities, or in the location thereof, shall be immediately reported to the appropriate regional office of the federal aviation administration

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both

